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PTO/SB/05 (03-01)

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030204



22764 U.S. PTO

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.

706700-999184

Total Pages

79 + 34
refs

First Named Inventor or Application Identifier

Amin et al.

Express Mail Label No.

ER 813 698 327 US

APPLICATION ELEMENTS

See MPEP chapters 600 concerning utility patent application contents.

Address to:

Commissioner for Patents

P.O. Box 1450

Mail Stop PATENT APPLICATION

Alexandria, VA 22313-1450

1. ☒ Fee Transmittal Form, in duplicate [Total Sheets 4]
(Submit an original, and a duplicate for fee processing)
2. ☒ Applicant claims Small Entity status, see 37 C.F.R. § 1.27
3. ☒ Specification [Total Pages 31]
(preferred arrangement set forth below, MPEP 1503.01)
- Descriptive title of the Invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R&D
 - Reference to Microfiche Appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description of the Invention (including drawings, if filed)
 - Claim(s)
 - Abstract of the Disclosure
4. ☒ Drawing(s) (35 USC 113) [Total Sheets 18]
5. ☒ Oath or Declaration [Total Pages 3]
- a. ☐ Newly executed (original or copy)
- b. ☒ Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 18 completed)
- i. ☐ DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. ☐ Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
- a. ☐ Computer Readable Form (CRF)
- b. ☐ Specification Sequence Listing on:
- i. ☐ CD-ROM or CD-R (2 copies); or
 - ii. ☐ paper
- c. ☐ Statement verifying identity of above copies

17354 U.S. PTO
10/791579



030204

ACCOMPANYING APPLICATION PARTS

9. ☐ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement [when there is an assignee] ☒ Power of Attorney [2 pp.]
11. ☐ English Translation Document (if applicable)
12. ☒ Information Disclosure Statement (IDS)/PTO-1449 [5 pp.] ☒ Copies of IDS Citations
13. ☒ Preliminary Amendment [Total Pages 15]
14. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
16. ☐ Nonpublication Request under 35 U.S.C. 122 (b)(2)(i).
Applicant must attach form PTO/SB/35 or it's equivalent
17. ☐ Other:

18. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☒ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) | of prior application No.: 09/872,495 filed June 1, 2001.

Prior application information:

Examiner:

Eddie Chan

Group Art Unit:

2183

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

☒ Customer Number

20583

or ☐ Correspondence address below

NAME			
ADDRESS			
CITY	STATE	ZIP CODE	
COUNTRY	TELEPHONE	FAX	
Name (Print/Type)	Brett Lovejoy	Registration No. (Attorney/Agent)	42,813
Signature		Date	March 2, 2004

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

CAJD: 501103.1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Prior application: 09/872,495

Examiner: Eddie Chan

Art Unit 2183

Sir:

This is a request for filing a ☒ continuation ☐ divisional application under 37 CFR § 1.53(b), of pending prior application no. 09/872,495 filed on June 1, 2001.

of Amin et al.

(inventor(s) currently of record in prior application)

for **SYSTEMS AND METHODS FOR ENTANGLING QUBITS**

(title of invention)

1. ☒ The filing fee is calculated below:

PATENT APPLICATION FEE VALUE

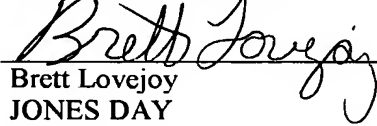
TYPE	NO. FILED	LESS	EXTRA	EXTRA RATE	FEE
Total Claims	19	- 20	0	\$18.00 each	\$ 0.00
Independent	4	- 3	1	\$86.00 each	\$ 86.00
Minimum Fee					\$ 770.00
Multiple Dependency Fee If Applicable (\$290.00)					\$ 0.00
Total					\$ 856.00
Applicant qualifies for the 50% Reduction for Independent Inventor, Nonprofit Organization or Small Business Concern					\$ 428.00
Total Filing Fee					\$ 428.00

2. ☒ Please charge the required fee to Jones Day Deposit Account No. 503013, referencing Docket No. 706700-999184. A copy of this sheet is enclosed.
- 3a. ☒ A Preliminary Amendment is enclosed.
- 3b. ☐ A new specification, substantially identical to the pending prior application and containing no new matter, is enclosed.
- 4a. ☐ New formal drawings are enclosed.
- 4b. ☐ Informal drawings are enclosed.
- 5a. ☐ Priority of application no. filed on in is claimed under 35 U.S.C. §119.
- 5b. ☐ The certified copy has been filed in prior application no. , filed .
6. ☒ The prior application is assigned of record to D-Wave Systems, Inc.
- 7a. ☐ A copy of the Power of Attorney filed in the prior application no. , filed is enclosed.

- 7b. ☒ A Power of Attorney is enclosed.
8. ☐ This application contains nucleic acid and/or amino acid sequences required to be disclosed in a Sequence Listing under 37 CFR §§1.821-1.825. It is requested that the Sequence Listing in computer readable form from prior application no., filed on be made a part of the present application as provided for by 37 C.F.R. §1.821(e). The sequences disclosed therein are the same as the sequences disclosed in this application. A copy of the paper Sequence Listing from application no. is enclosed.
9. ☐ The undersigned states, under 37 C.F.R. §1.821(f), that the content of the enclosed paper Sequence Listing from application no. is the same as the content of the computer readable form submitted in application no. .
10. ☐ DO NOT PUBLISH. I hereby certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. 122(b).
11. ☐ Additional enclosures or instruction

Respectfully submitted,

Date March 2, 2004


Brett Lovejoy
JONES DAY
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New York, New York 10017

42,813
(Reg. No.)